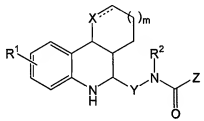
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A tetrahydroquinoline derivative represented by the following formula (I) or pharmacologically acceptable salts thereof:



(I)

wherein R^1 represents ~~a nitro group or~~ a cyano group;

X represents CH ~~or O~~, provided that when X is CH, the dashed line represents a double bond;

m represents 0 ~~or 1~~;

Y represents ~~an alkylene group having 1 - 5 carbon atoms which may be substituted by a substituent selected from the group consisting of an alkyl group having 1 - 5 carbon atoms and a cycloalkyl group having 3 - 7 carbon atoms~~ $-C(CH_3)_2-CH_2-$;

R^2 represents a hydrogen atom~~, an alkyl group having 1 - 5 carbon atoms, a cycloalkyl group having 3 - 7 carbon atoms or an aralkyl group having 7 - 9 carbon atoms~~;

~~Z represents B-O-Q~~

~~[wherein B represents an alkylene group having 1 - 5 carbon atoms which may be substituted by a substituent selected from the group consisting of an alkyl group having 1 - 5~~

~~carbon atoms and a cycloalkyl group having 3 - 7 carbon atoms; Q is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms or a cycloalkyl group having 3 - 7 carbon atoms which may be substituted by a substituent selected from the group consisting of a halogen atom, a hydroxyl group, a cyano group and an alkoxy group having 1 - 5 carbon atoms, or an aryl group, a heteroaryl group or an aralkyl group having 7 - 9 carbon atoms which may have a substituent R^3~~,

Z represents a heteroaryl group which may be substituted by 1 - 3 independent R^{11}'s, wherein the R^{11}'s independently have the same meaning as R^3;

R^3 represents an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a halogen atom, an aryl group, a heteroaryl group, a nitro group, a cyano group, -A-R^4 {wherein A represents -CO-, -CO_2-, -COS-, -$CONR^5$-, -O-, -OCO-, -OSO_2-, -S-, SCO-, -SO-, -SO_2-, -NR^5-, -NR^5CO-, -NR^5SO_2-, -NR^5CONH-, NR^5CSNH- or –NR^5COO- (wherein R^5 represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms, a cycloalkyl group having 3 - 7 carbon atoms or an aralkyl group having 7 - 9 carbon atoms),

R^4 is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a cycloalkyl group having 3 - 7 carbon atoms, a halogen atom, or an aryl group or a heteroaryl group which may be substituted by R^6 (wherein R^6 represents an alkyl group having 1 - 5 carbon atoms, an alkoxy group having 1 - 5 carbon atoms or a halogen atom), provided that when A is NR^5- or -$CONR^5$-, R^4 and R^5 may, together with the nitrogen atom to which they are bonded, form pyrrolidine or piperidine)}, or -A'-$(CH_2)_n$-$R^{4'}$ {wherein A' represents a single bond, -CO-, -CO_2-, -COS-, -$CONR^{5'}$-, -O-, -OCO-, -OSO_2-, -S-, SCO-, -SO-, -SO_2-, -$NR^{5'}$-, -$NR^{5'}CO$-, -$NR^{5'}SO_2$-, -$NR^{5'}CONH$-, $NR^{5'}CSNH$- or –$NR^{5'}COO$- (wherein $R^{5'}$ represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms, a cycloalkyl group having 3 - 7 carbon atoms or an aralkyl group having 7 - 9 carbon atoms), n represents an integer of 1 or

2, $R^{4'}$ represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a cycloalkyl group having 3 - 7 carbon atoms, a halogen atom, a hydroxyl group, a cyano group, an alkoxy group having 1 - 5 carbon atoms, an alkylacyloxy group having 2 - 5 carbon atoms, an alkoxycarbonyl group having 2 - 5 carbon atoms, an aryl group or a heteroaryl group which may be substituted by $R^{6'}$ (wherein $R^{6'}$ represents an alkyl group having 1 - 5 carbon atoms, an alkoxy group having 1 - 5 carbon atoms or a halogen atom), or $-NR^{7'}R^{8'}$ (wherein $R^{7'}$ and $R^{8'}$ each independently have the same meaning as the aforementioned $R^{5'}$, provided that $R^{7'}$ and $R^{8'}$ may, together with the nitrogen atom to which they are bonded, form pyrrolidine or piperidine), provided that when A' is $-NR^{5'}-$ or $-CONR^{5'}-$, $R^{4'}$ and $R^{5'}$ may, together with the $-N-(CH_2)_n-$ to which they are bonded, form pyrrolidine or piperidine}~~], or alternatively Z represents $-(CH_2)_r-W$~~

~~[wherein r represents an integer of 0 - 2, W represents~~

~~a phenyl group having substituent R^9 at p-position, a naphthyl group which may have substituent R^{10} or a heteroaryl group which may be substituted by 1 - 3 independent R^{11}'s (wherein R^9, R^{10} and R^{11} independently have the same meaning as the aforementioned R^3)~~].

2. (canceled).

3. (currently amended): The tetrahydroquinoline derivative according to claim 1, ~~where Y is $-CH(CH_3)-CH_2-$ or $-C(CH_3)_2-CH_2-$, m is 0, R^2 is a hydrogen atom and Z is W~~ ~~[wherein W is a heteroaryl group which may be substituted by 1 - 3 independent R^{11}'s or a phenyl group having substituent R^9 at p-position~~ {wherein R^{11}'s ~~and~~ R^9 independently represent a halogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine

atom, a nitro group, a cyano group, -A-R^4 (wherein A is -CO-, -CO_2-, -O-, -NHCO- or -NHCONH-, and R^4 is a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom) or -A'-(CH_2)n-$R^{4'}$ (wherein A' is -CO-, -CO_2-, -O-, -NHCO- or -NHCONH-, $R^{4'}$ is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a hydroxyl group, a halogen atom or an alkoxy group having 1 - 5 carbon atoms, and n is an integer of 1 or 2)~~]~~ or pharmacologically acceptable salts thereof.

4. (currently amended): The tetrahydroquinoline derivative according to claim 3, where Z is ~~a phenyl group having substituent R^9 at p-position or~~ a heteroaryl group having substituent R^{11} {wherein ~~R^9 and~~ R^{11} independently represents a halogen atom, -O-R^4 or -NHCO-R^4 (wherein R^4 represents a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom)} or pharmacologically acceptable salts thereof.

5. (currently amended): The tetrahydroquinoline derivative according to claim 3, where Z is ~~a phenyl group having substituent R^9 at p-position or~~ a heteroaryl group having substituent R^{11} {wherein ~~R^9 and~~ R^{11} represents -NHCO-R^4 (wherein R^4 represents a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom)} or pharmacologically acceptable salts thereof.

6. (currently amended): The tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 and a pharmaceutically acceptable carrier or excipient.

7. - 10. (canceled).

11. (previously presented): A method of treating muscle wasting or osteoporosis, which comprises administering to a mammal in need of such treatment, the tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 in an amount effective to treat said diseases.

12. (previously presented): A method of treating male hypogonadism, , which comprises administering to a mammal in need of such treatment, the tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 in an amount effective to treat said disease.

13. (canceled).